

Title (en)

Navigation apparatus with shape change display function

Title (de)

Navigationsvorrichtung mit Formveränderungsanzeigefunktion

Title (fr)

Appareil de navigation avec fonction d'affichage de changement de forme

Publication

EP 0803706 A2 19971029 (EN)

Application

EP 97106642 A 19970422

Priority

JP 13078996 A 19960426

Abstract (en)

A navigation apparatus which can preferentially recognize important information on a map hidden by buildings, mountains, etc. which were stereoscopically displayed and enables a set route or a present position of a vehicle to be easily recognized. A navigation apparatus has: a recording medium on which at least map data having a road and shape data which is included in the map data and serves as a main landmark object to recognize a feature of a map have been recorded; an image forming unit for forming image information when the map data is seen from a desired sight point position on the basis of the map data and the shape data; a display unit for displaying on the basis of the image information formed by the image forming unit; and a control unit for controlling the recording medium, image forming unit, and display unit. The control unit controls a shape data changing unit to change at least a part of the shape data on the basis of at least the map data and also controls the image forming unit to form the image information on the basis of the map data, the shape data, and shape data changed by the shape data changing unit.
<IMAGE>

IPC 1-7

G01C 21/20

IPC 8 full level

G09B 29/10 (2006.01); **G01C 21/00** (2006.01); **G01C 21/36** (2006.01); **G08G 1/0969** (2006.01)

CPC (source: EP US)

G01C 21/3638 (2013.01 - EP US); **G08G 1/0969** (2013.01 - EP US)

Cited by

KR100745116B1; EP1126245A3; CN108885845A; EP1085299A3; DE102007022512A1; EP2972095A4; US6871143B2; CN102538802A; EP2075543A3; EP1298414A4; EP1024467A3; CN104075719A; US6678610B2; US6587784B1; WO2009132679A1; WO0216874A1; WO2007031361A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0803706 A2 19971029; **EP 0803706 A3 19981223**; **EP 0803706 B1 20040630**; DE 69729684 D1 20040805; DE 69729684 T2 20050721; JP 3798469 B2 20060719; JP H09292833 A 19971111; US 5999879 A 19991207

DOCDB simple family (application)

EP 97106642 A 19970422; DE 69729684 T 19970422; JP 13078996 A 19960426; US 83982397 A 19970418